

Metric Conversions

APPROXIMATE CONVERSIONS STANDARD / US CUSTOMARY UNITS

AND

SI / METRIC UNITS
Standard to Metric:

SYMBOL
WHEN YOU KNOW
MULTIPLY BY
TO FIND
SYMBOL

LENGTH

in
inches
25.4
millimeters
mm

ft
feet
0.305
meters
m

yd
yards
0.914
meters
m

mi
miles
1.61
kilometers
km

AREA

in²
square inches
645.2
square millimeters
mm²

ft²
square feet
0.093
square meters

m²

yd²
square yard
0.836
square meters
m²

ac
acres
0.405
hectares
ha

mi²
square miles
2.59
square kilometers
km²

VOLUME

fl oz
fluid ounces
29.57
milliliters
mL

gal
gallons
3.785
liters
L

ft³
cubic feet
0.028
cubic meters
m³

yd³
cubic yards
0.765
cubic meters
m³

MASS

oz
ounces
28.35
grams
g

lb
pounds
0.454
kilograms
kg

T
short tons (2000 lb)
0.907
megagrams (or "metric ton")
Mg (or "t")

TEMPERATURE

oF
Fahrenheit
 $(F-32) \times 5 / 9$

or

$(F-32) / 1.8$
Celsius
oC

ILLUMINATION

fc
foot-candles
10.76
lux
lx

fl
foot-Lamberts
3.426
candela/m²
cd/m²

FORCE and PRESSURE or STRESS

lbf
poundforce
4.45
newtons
N

lbf/in²
poundforce per square inch
6.89
kilopascals
kPa

SYMBOL
WHEN YOU KNOW
MULTIPLY BY
TO FIND
SYMBOL

LENGTH

mm
millimeters
0.039
inches
in

m
meters
3.28
feet
ft

m
meters
1.09
yards
yd

km
kilometers
0.621
miles
mi

AREA

mm²
millimeters
0.0016
square inches
in²

m²
square meters
10.764
square feet
ft²

m²
square meters
1.195
square yards
yd²

ha
hectares
2.47
acres
ac

km²
square kilometers
0.386
square miles
mi²

VOLUME

mL
milliliters
0.034
fluid ounces
fl oz

L
liters
0.264
gallons
gal

m³
cubic meters
35.314
cubic feet
ft³

m³
cubic meters
1.307
cubic yards
yd³

MASS

g
grams
0.035
ounces
oz

kg
kilograms
2.202
pounds
lb

Mg (or "t")
megagrams

(or "metric ton")
1.103
short tons (2000 lb)
T

TEMPERATURE

oC
Celsius
 $1.8C + 32$
Fahrenheit
oF

ILLUMINATION

lx
lux
0.0929
foot-candles
fc

cd/m2
candela/m2
0.2919
foot-Lamberts
fl

FORCE and PRESSURE or STRESS

N
newtons
0.225
poundforce
lbf

kPa
kilopascals
0.145
poundforce per square inch
lbf/in2